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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/696,650

10/30/2003

Vincent Cedric Colnot

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EXAMINER

GYORFI, THOMAS A

ART UNIT

PAPER NUMBER

2435

MAIL DATE

DELIVERY MODE

11/25/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/696,650	<b>Applicant(s)</b> COLNOT, VINCENT CEDRIC	
	<b>Examiner</b> Thomas Gyorfi	<b>Art Unit</b> 2435	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 August 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 15-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. Claims 1-13 and 15-22 remain for examination. The correspondence filed 8/28/08 amended claims 1, 9-13, 15-17, 19, and 20.

### ***Response to Arguments***

2. Applicant's arguments, see the amendment filed 8/28/08, with respect to the rejection(s) of claim(s) 1-22 under 35 USC 102(e) in view of Atsmon have been fully considered and are persuasive. Therefore, the rejections have been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the newly discovered reference to Antebi.

### ***Claim Rejections - 35 USC § 103***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1-13 and 15-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atsmon et al. (U.S. Patent 6,607,136) in view of Antebi et al. (U.S. Patent 7,334,735).

Regarding claims 1 and 16:

Atsmon discloses a method and apparatus for securing online transactions on the Internet comprising: a smart card transmitting an identification sequence to the microphone input of the PC in the form of a modulated signal (element 10 of Figure 1;

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col. 31, lines 29-55; modulated signals at col. 11, lines 1-3 and col. 31, lines 10-15); a connector connecting an output of the smart card transmission to the microphone input of the PC soundcard: (The microphone: col. 3, lines 45-63; element 112 of Figure 11) and a PC applet, executed by the PC, demodulating the identification sequence (col. 32, lines 25-50 and 64-67).

Although Atsmon discloses providing modulated voltage signals to the transmission unit (e.g. col. 11, line 55 – col. 15, line 25), the reference as cited teaches converting the voltage signal into an acoustic signal prior to the actual transmission step. However, Antebi discloses a derivative smart card to that disclosed by Atsmon, which discloses an alternative embodiment to the acoustic transmission wherein the smart card is directly connected to the computer via a cable (col. 14, lines 55-67; cf. the NPL references from the Office Action of 5/15/07 as indicated) through their respective audio jacks provided for that purpose (col. 12, lines 1-15). The claim is thus obvious because the substitution of the cable, which would allow the direct transmission of the modulated voltage signals to the microphone input of the computer, in lieu of the acoustic transformation steps disclosed by the original prior art, would have yielded predictable results to one of ordinary skill in the art at the time of the invention.

Regarding claim 2 and 17:

Atsmon further discloses wherein the identification sequence comprises at least a unique card number (col. 16, lines 30-31) and a random number valid only once (col. 81, lines 45-50).

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Regarding claim 3 and 18:

Atsmon further discloses wherein the random number is a session key which is not transmitted to the authentication server (col. 16, lines 33-35).

Regarding claim 4 and 19:

Atsmon further discloses wherein the session key is a function of the previous one emitted by the card (col. 16, lines 60-65).

Regarding claim 5 and 20:

Atsmon further discloses wherein the session key is used by the PC applet to generate a message authentication code of the password entered by the user; said first MAC is transmitted to the authentication server along with the card number (col. 52, lines 30-45; see also col. 32, lines 64-67).

Regarding claim 6 and 21:

Atsmon further discloses wherein the server generates a second MAC of the password stored in the server authentication database, using a session key deduced from the previous session key also stored in the database (col. 60, lines 20-38; see also col. 16, lines 60-67).

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Regarding claim 7 and 22:

Atsmon further discloses wherein the authentication is valid only if said first and second MAC are identical; and wherein the authentication server replaces Ki-1 with Ki and Ki cannot be reused (col. 78, lines 11-38).

Regarding claim 8:

Atsmon further discloses wherein the smart card is powered by the voltage provided by the microphone input of the PC sound card (col. 3, lines 52-57).

Regarding claim 9:

Atsmon further discloses wherein the smart card transmits the modulated signal when the switch of the card reader is pressed by the user (col. 28, lines 6-18).

Regarding claim 10:

Atsmon further discloses wherein at least one embodiment of the invention conforms to the ISO standards for smart cards (col. 25, lines 10-15). Consequently, it is inherent to such embodiments that the smart card transmits the modulated signal to the microphone input through ISO contact C6 (see also the ISO7816 reference, page 3).

Regarding claim 11:

Atsmon further discloses wherein at least one embodiment of the invention conforms to the ISO standards for smart cards (col. 25, lines 10-15). Consequently, it is

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inherent to such embodiments that the smart card transmits the modulated signal when the ISO contact C2 is pulled down (see also the ISO7816 reference, page 3).

Regarding claim 13:

Atsmon further discloses wherein the card reader further comprises a battery cell powering the card (col. 3, lines 52-57; see also element 251 of Figure 26). It is inherent to the SoundBlaster cards used in the preferred embodiment of Atsmon (col. 31, lines 30-35) that they possess line inputs which exist as alternatives to plug other miscellaneous devices into (for illustration, see the previously cited Creative Sound Blaster manual, page 1-7). Also see MPEP 2163.07(a).

Regarding claim 15:

Atsmon further discloses wherein the card reader is further integrated into the PC unit (col. 3, lines 48-52).

5. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atsmon in view of Antebi as applied to claim 11 above, and further in view of ISO 7816.

Regarding claim 12:

Atsmon further discloses wherein at least one embodiment of the invention conforms to the ISO standards for smart cards (col. 25, lines 10-15). The ISO discloses only one set of power contacts for one power source (C1 and C5, ISO 7816, page 3,

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section 2.2.3). However, Atsmon has an embodiment where the smart card is in contact with multiple power sources exist: both a battery on the card (element 251 of Figure 26) and a power supply in the reader (col. 3, lines 52-57); furthermore, contacts C4 and C8 were left reserved for future use. (see ISO 7816, page 4, section 2.3.1). It would have been obvious to use those contacts to allow both power sources to be connected to the card simultaneously, not only because all the claimed elements were known in the prior art, and one skilled in the art could have combined the elements as claimed with no change in their respective functions, and the combination would have yielded predictable results to one of ordinary skill in the art at the time of the invention; but also that one would be motivated to do so in order to allow the card to recharge the battery (Atsmon, col. 3, lines 52-57).

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- U.S. Patent 6,505,266 to Gu
- U.S. Patent 6,212,272 to Herschler et al.
- U.S. Patent 6,122,355 to Strohl
- U.S. Patent 5,799,036 to Staples

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP



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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas Gyorfi whose telephone number is (571)272-3849. The examiner can normally be reached on 8:30am - 5:00pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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TAG

11/3/08

/Kimyen Vu/

Supervisory Patent Examiner, Art Unit 2435